

Title (en)  
POWER INDUCTOR

Title (de)  
LEISTUNGSINDUKTOR

Title (fr)  
INDUCTEUR DE PUISSANCE

Publication  
**EP 3522182 A4 20200527 (EN)**

Application  
**EP 17856711 A 20170927**

Priority  
• KR 20160126741 A 20160930  
• KR 2017010672 W 20170927

Abstract (en)  
[origin: US2019189340A1] Provided is a power inductor. The power inductor includes a body including magnetic powder and a polymer, at least one base provided in the body and having at least one surface on which at least one coil pattern is disposed, and an insulation layer disposed between the coil pattern and the body. The body includes at least region in which the magnetic powder having a particle size different from that of the magnetic power in a remaining region is distributed.

IPC 8 full level  
**H01F 27/28** (2006.01); **H01F 17/00** (2006.01); **H01F 27/32** (2006.01)

CPC (source: EP KR US)  
**H01F 3/08** (2013.01 - EP US); **H01F 3/10** (2013.01 - EP US); **H01F 17/0013** (2013.01 - EP KR US); **H01F 27/28** (2013.01 - KR); **H01F 27/2804** (2013.01 - KR US); **H01F 27/323** (2013.01 - KR US); **H01F 27/022** (2013.01 - EP US); **H01F 2003/106** (2013.01 - EP US); **H01F 2017/048** (2013.01 - EP US); **H01F 2027/2809** (2013.01 - KR US)

Citation (search report)  
• [XY] US 2016180995 A1 20160623 - PARK JEONG HYUN [KR], et al  
• [XY] US 2016042859 A1 20160211 - PARK MOON SOO [KR], et al  
• [XY] US 2015371752 A1 20151224 - PARK MOON SOO [KR], et al  
• [A] KR 20160018382 A 20160217 - INNOCHIPS TECHNOLOGY [KR]  
• [Y] US 2016234979 A1 20160811 - LEE JAE WOOK [KR], et al  
• See references of WO 2018062825A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 11270837 B2 20220308**; **US 2019189340 A1 20190620**; CN 109690708 A 20190426; CN 109690708 B 20220531; EP 3522182 A1 20190807; EP 3522182 A4 20200527; EP 3522182 B1 20230719; JP 2019532519 A 20191107; JP 6880195 B2 20210602; KR 101868026 B1 20180618; KR 20180036314 A 20180409; TW 201826295 A 20180716; TW I645431 B 20181221; WO 2018062825 A1 20180405

DOCDB simple family (application)  
**US 201716326186 A 20170927**; CN 201780055302 A 20170927; EP 17856711 A 20170927; JP 2019534623 A 20170927; KR 20160126741 A 20160930; KR 2017010672 W 20170927; TW 106122973 A 20170710